Index of Claims

| Appl | ication | Control | No. |
|------|---------|---------|-----|

10/782,805 Examiner

Gary Chin

Applicant(s)/Patent under Reexamination

CARROLL, ERNEST A.

**Art Unit** 

3661

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

Appeal 0 Objected

|          |          | L              |          |                                     |  |                | J        |              | L  | I              | _           |          |          | _        |              |              |          | J  | Ч—       |  |          |              |     |          |
|----------|----------|----------------|----------|-------------------------------------|--|----------------|----------|--------------|--|----------------|-------------|----------|----------|----------|--------------|--------------|----------|--|----------|--|----------|--------------|-----|----------|
| Cla      | aim      | Г              |          |                                     |  | Dat            | <u>е</u> |              |  | -              | 1           | Cla      | aim      |          |              |              | - 1      | Dat  |          |  |          |              | ] . | Γ        |
| Final    | Original | 3/30/07        |          |                                     |  |                |          |              |  |                |             | Final    | Original |          |              |              |          |  |          |  |          |              |     |          |
|          | 1        | $\overline{V}$ | T        | Г                                   |  | ┢              |          |              | T  | Г              | 1           |          | 51       |          | I            | Г            |          | T  |          |  | $\vdash$ | Г            | 1   | r        |
| -        | 2        | V              | $\vdash$ | $\vdash$                            | Г  |                |          | П            | Π  |                | 1           |          | 52       |          |              |              |          |  |          |  |          |              | ]   |          |
|          | 3        | <b>V</b>       |          |                                     |  |                |          |              |  |                | ]           |          | 53       |          |              |              |          |  |          |  |          |              |     |          |
|          | 4        | $\checkmark$   |          |                                     |  |                |          |              |  |                | ]           |          | 54       |          |              |              |          |  |          |  |          |              |     |          |
|          | 5        | V              |          |                                     |  |                |          |              |  | _              | ]           |          | 55       |          |              | <u> </u>     |          | L  |          |  |          |              |     | L        |
|          | 6        | V              | L_       |                                     |  | L              | _        | _            | <u> </u>   | 辶              |             |          | 56       | L        | <u> </u>     |              |          | L  | L        |  | _        |              |     | L        |
| <u> </u> | 7        | V              | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _  | <u> </u>       | <u> </u> | L            | ┞-   | <u> </u>       | Į           |          | 57       |          | $\vdash$     | $\vdash$     | <u> </u> | ┞  | <u> </u> | _  |          | _            | 1   | L        |
|          | 8        | V,             | _        | _                                   | _  | <del> </del> — | <u> </u> | _            | ⊢  | ├-             | ł           |          | 58       | _        | <u> </u>     | <u> </u>     | L        | -  | <u> </u> | <del> </del>                                     | <u> </u> | <u> </u>     | 1   | H        |
| <u></u>  | 9        | $ \cdot $      | ⊢        | -                                   | ├  | <del> </del>   | ⊢        | $\vdash$     | ├-   | ├-             | ┨           |          | 59<br>60 |          | ⊢            |              | _        | ┢  | -        |  | _        | H            | 1   | $\vdash$ |
|          | 10<br>11 | V              | -        | <u> </u>                            | -  | ┝              | -        | -            | -  | ├              | <b>∤.</b> . |          | 61       |          | ⊢            | <del> </del> | -        | ┝  |          | <u> </u>   | -        | <del> </del> | ┨   | H        |
|          | 12       | ンソ             | ⊢        | $\vdash$                            | -  | ┢              | ╁        | -            | ┢  | ├              | ┨           |          | 62       | -        | -            | $\vdash$     | ┝        | ┢  | $\vdash$ | $\vdash$   | ┝        | -            | ł   | H        |
| -        | 13       | V              | -        | ┢                                   | ╁  | <del> </del>   | ╁╌       | ╁╾           | $\vdash$   | ┢              | ┨           |          | 63       | $\vdash$ | ⊢            | $\vdash$     | $\vdash$ | ┢  | $\vdash$ | $\vdash$   |          | $\vdash$     | 1   | ۲        |
| <b>—</b> | 14       | V              | Н        | H                                   | $\vdash$   | $\vdash$       | $\vdash$ | $\vdash$     | $\vdash$   | -              | 1.          |          | 64       |          | $\vdash$     | H            |          | <del>                                     </del> | _        | ┪  | $\vdash$ | -            |     | t        |
|          | 15       | Ĭ              | Н        | Н                                   |  | <u> </u>       | i        |              | Г  |                | 1           |          | 65       |          | $\vdash$     |              | _        | <u> </u>   | -        | -  |          |              | 1 - | t        |
|          | 16       | V              |          | _                                   |  | 1              |          | Τ            | T  | T              | 1           |          | 66       |          | ┢            | $\vdash$     | Г        | Г  |          | 一  |          | Г            |     | r        |
|          | 17       |                |          | Γ                                   |  |                | Γ        | Γ            | Г  |                | 1           |          | 67       |          | Г            | Π            |          |  |          |  |          |              | T.  |          |
|          | 18       |                |          |                                     |  |                |          |              |  |                |             |          | 68       |          |              |              |          |  |          |  |          |              |     |          |
|          | 19       |                |          |                                     |  |                |          |              |  |                | ]           |          | 69       |          |              |              |          |  |          |  |          |              |     |          |
|          | 20       |                |          |                                     |  |                |          |              |  |                | ]           |          | 70       |          |              |              |          |  |          |  |          |              |     | L        |
| <u></u>  | 21       |                | _        |                                     |  | _              | 乚        | <u> </u>     | <u> </u>   | L              | ]           |          | 71       |          | L            | <u></u>      | L        |  | L        | L  |          |              |     | L        |
| <u> </u> | 22       | <u> </u>       | _        | _                                   | <u></u>  | <u> </u>       | <u> </u> | L            | <u> </u>   | L              | 1           |          | 72       |          | _            | _            | _        | _  | _        | _  | <u> </u> |              |     | L        |
|          | 23       |                |          | _                                   | _  | <u> </u>       | ┞        | <u> </u>     | 上  | <u> </u>       | 1           | <u> </u> | 73       | <u> </u> | _            | <u> </u>     | L        | ╙  | <u> </u> | <u> </u>   | <u> </u> |              | ł   | Ļ        |
|          | 24       |                | <u> </u> | ┡                                   |  | <u> </u>       | ļ        | <del> </del> | ┞  | <del> </del> — | ┨           |          | 74       | _        | <del> </del> | ┡            | ┞        | ╀  | <u> </u> | <u> </u>   |          | _            | ∤   | ŀ        |
| <u> </u> | 25<br>26 |                | <u> </u> | ⊢                                   |  | -              | ├        | -            | ├  | -              | ┨           |          | 75<br>76 | -        | $\vdash$     | <del> </del> | ⊢        | ┝  | -        | ⊢  | $\vdash$ | _            | ł   | ŀ        |
| -        | 27       |                |          | -                                   | -  | 1-             | ┢        | H            | ┝  | ╁              | ł           | <u> </u> | 77       |          | ⊢            | ├            | _        | ╁╌   | ├        | -  | $\vdash$ | -            | ┨   | H        |
|          | 28       | $\vdash$       | _        | ⊢                                   | ├  | ⊢              | $\vdash$ | ├-           | ╁  | ╁              | ł           |          | 78       | -        | ┢            | ⊢            | ├-       | ╁╾   | ├-       | <del> </del>                                     | $\vdash$ | ┝            | ł   | H        |
|          | 29       | Н              |          | $\vdash$                            |  | ╁╌             | $\vdash$ | ┢            | H  | ╁              | 1           |          | 79       |          | ⊢            | $\vdash$     | H        | $\vdash$   | ╁╌       | $\vdash$   | $\vdash$ | ┢            | 1   | H        |
| -        | 30       | Н              | Н        | ┢                                   | $\vdash$   | $\vdash$       | $t^-$    |              | <del>                                     </del> | 1              | 1           | _        | 80       |          | ┢            | $\vdash$     | <u> </u> | <del>                                     </del> | T        | _  | $\vdash$ |              | 1   | r        |
|          | 31       |                | _        | ┢                                   | <del>                                     </del> | ┢              | T        | H            | H  | H              | 1           |          | 81       |          | Н            |              | Н        | T  | $\vdash$ | $\vdash$   | $\vdash$ |              | 1   | r        |
|          | 32       |                |          | Г                                   |  |                | T        |              |  | Г              | 1           |          | 82       |          | _            |              |          | T  |          |  |          |              | 1   | T        |
|          | 33       | П              |          | Г                                   |  |                |          |              |  | Γ              | 1           |          | 83       |          |              |              |          |  | Г        |  |          |              | ]   | Γ        |
|          | 34       |                |          |                                     |  |                |          |              |  |                | ]           |          | 84       |          | _            |              |          |  |          |  |          |              |     |          |
|          | 35       |                |          |                                     |  |                |          |              | L  |                | ļ           |          | 85       |          | _            | <u> </u>     |          |  |          |  |          |              |     | L        |
|          | 36       |                |          | L                                   | <u>L</u> .                                       | L_             |          |              | _  | $oxed{oxed}$   | 1           |          | 86       |          | 匚            | _            |          | <u> </u>   | L        |  |          | _            |     | L        |
|          | 37       |                | _        | <u> </u>                            | <u> </u>   | <u> </u>       | _        | _            | 匚  | Ļ              | ļ           |          | 87       | _        | L            | <u> </u>     | _        | <u> </u>   | _        | <u> </u>   |          | _            | 1   | Ŀ        |
|          | 38       | _              | _        | ┡                                   | <u> </u>   | <u> </u>       | ├        | <u> </u>     | <u> </u>   | <u> </u>       | 4           |          | 88       | <b>L</b> | ┡            | <u> </u>     | L        | <u> </u>   | <u> </u> | <u> </u>   | <u> </u> | <u> </u>     | 1   | F        |
|          | 39       |                | _        | ⊢                                   | ├  | <u> </u>       | -        | -            | ├  | -              | ł           |          | 89       |          | ┞            | <u> </u>     | L        | ┞  | -        | <u> </u>   | _        | _            | -   | F        |
| <u> </u> | 40<br>41 | Н              | $\vdash$ | ⊢                                   | $\vdash$   |                | ├-       | $\vdash$     | $\vdash$   | $\vdash$       | 1           |          | 90<br>91 | $\vdash$ | $\vdash$     | ⊢            | -        | ⊢  | ⊢        | $\vdash$   | $\vdash$ | ├-           | 1   | H        |
| -        | 41       | Н              | $\vdash$ | $\vdash$                            | $\vdash$   | $\vdash$       | ┼        | ├            | -  | -              | {           | <u> </u> | 92       | ⊢        | ⊢            | ├            | ⊢        | -  | -        | ├-   | $\vdash$ | $\vdash$     | ı   | H        |
| <u> </u> | 43       | $\vdash$       | $\vdash$ | ┝                                   | -  | 1              | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$       | 1           |          | 93       | H        | $\vdash$     | -            | $\vdash$ | ├  | -        | $\vdash$   | $\vdash$ | $\vdash$     | ł   | H        |
| -        | 44       | Н              | $\vdash$ | $\vdash$                            | Н  | $\vdash$       | $\vdash$ | Н            | $\vdash$   | $\vdash$       | 1           | $\vdash$ | 94       |          | H            | $\vdash$     | $\vdash$ | $\vdash$   | -        | $\vdash$   | $\vdash$ | $\vdash$     | 1   | $\vdash$ |
|          | 45       | Н              |          | Н                                   | Н  | $\vdash$       | H        |              | $\vdash$   | $\vdash$       | 1           | <b></b>  | 95       |          | Н            | $\vdash$     | $\vdash$ | t  | -        | $\vdash$   | $\vdash$ | $\vdash$     | 1   | r        |
|          | 46       | H              | Г        | ┢                                   | ┢  | -              | T        | T            | T  | $\vdash$       | 1           |          | 96       | H        | T            | $\vdash$     | Т        | T  |          | <del>                                     </del> | $\vdash$ | $\vdash$     | 1   |          |
|          | 47       | П              | _        |                                     | Г  |                |          | $\Box$       | Т  | Т              | 1           |          | 97       |          |              |              |          | T  | Ι-       | Т  |          | Г            | l   | r        |
|          | 48       |                |          |                                     |  |                |          |              |  | П              | 1           |          | 98       |          | Г            |              |          |  |          |  |          |              |     |          |
|          | 49       |                |          |                                     |  |                |          |              |  |                |             |          | 99       |          |              |              |          |  |          |  |          |              | ]   |          |
|          | 50       |                |          |                                     |  |                |          |              |  |                | ]           |          | 100      |          |              |              |          |  |          |  |          |              | J   |          |
|          |          |                |          |                                     |  |                |          |              |  |                | -           |          |          |          |              |              |          |  |          |  |          |              |     | _        |

| Cla  | aim            | _        |          |               |               | Date     |          |              |          |          |
|--|----------------|----------|----------|---------------|---------------|----------|----------|--------------|----------|----------|
|  |                |          |          |               |               |          | Ī        |              |          | Г        |
| Final  | Original       |          |          |               |               |          |          |              |          |          |
|  | 51<br>52       |          |          |               |               |          |          |              |          |          |
| <u> </u>   | 52             |          | oxdot    | L             |               | _        | L        |              | <u> </u> | L_       |
|  | 53             |          | _        | <u> </u>      |               | <u> </u> | _        |              | <u> </u> | H        |
|  | 53<br>54<br>55 | H        | $\vdash$ | ⊢             |               | _        | H        | _            | ┝        | H        |
| _  | 56             |          | -        | ⊢             |               |          | $\vdash$ |              |          | $\vdash$ |
|  | 57             | -        | -        | $\vdash$      |               | ⊢        | $\vdash$ | -            | $\vdash$ | H        |
|  | 58             |          |          |               |               | $\vdash$ |          |              |          |          |
|  | 59             |          |          |               |               | $\vdash$ |          | П            |          |          |
|  | 60             |          |          |               |               |          |          |              |          |          |
|  | 61             |          |          |               |               |          |          |              |          |          |
| <u> </u>   | 62<br>63       |          | _        | <u> </u>      |               | _        | _        |              | _        |          |
|  | 63             |          | _        | <u> </u>      |               | <u> </u> |          | _            | _        | _        |
|  | 64             | $\vdash$ | H        | $\vdash$      |               | <u> </u> | ├        |              | H        | H        |
| -  | 65<br>66       |          | -        | ┝             | _             | -        | -        |              | $\vdash$ | H        |
| -  | 67             |          | $\vdash$ | ┢             | $\overline{}$ | _        |          |              | _        | -        |
|  | 68             |          | $\vdash$ | I             |               |          |          |              |          |          |
|  | 69             |          | Г        |               |               |          |          |              |          |          |
|  | 70<br>71       |          |          |               |               |          |          |              |          |          |
|  | 71             |          | L        | <u> </u>      |               |          | _        | L_           |          |          |
|  | 72             |          | _        | <u> </u> _    | _             |          | <u> </u> |              | <u> </u> |          |
|  | 73<br>74       | <u> </u> | <u> </u> | ┡             | L             | <u> </u> | <u> </u> | <u> </u>     | <u> </u> | _        |
| -  | 75             |          |          | ⊢             | -             | -        | ├        | -            | ├        | _        |
| <u> </u>   | 76             | -        | ┢        | ┝             | $\vdash$      | ┢        | -        | $\vdash$     | $\vdash$ |          |
|  | 76<br>77       |          | Г        | _             |               | _        | _        |              |          | Т        |
|  | 78<br>79       |          |          |               |               |          |          |              |          |          |
|  | 79             |          |          |               |               |          |          |              |          |          |
|  | 80             |          |          | <u> </u>      |               | _        | <u> </u> | Щ            | _        | L        |
| <u> </u>   | 81             |          | <u> </u> | ┡             |               | -        | _        | <u> </u>     | _        | <u> </u> |
| <u> </u>   | 82<br>83       | -        | -        | ┞             | -             |          | ŀ-       | <u> </u>     | ├        | _        |
| $\vdash$   | 84             | $\vdash$ | Ι        | $\vdash$      | H             |          | $\vdash$ | $\vdash$     |          | $\vdash$ |
| <u> </u>   | 85             |          | $\vdash$ | H             | $\vdash$      | $\vdash$ | ┢        | $\vdash$     | $\vdash$ | Н        |
|  | 86             |          |          |               |               | Г        |          |              |          | П        |
|  | 87             |          |          |               |               |          |          |              |          |          |
|  | 88             |          |          |               |               |          |          |              |          |          |
|  | 89             | L        |          | L             |               | L        | L        | $oxed{\Box}$ | _        | L        |
|  | 90             | _        | <u> </u> | L             | _             | _        | <u> </u> |              | <u> </u> | -        |
| <u> </u>   | 91<br>92       | -        | <u> </u> | ├             | _             |          | ļ        | -            | ⊢        | H        |
| <del>                                     </del> | 93             | H        | $\vdash$ | -             | -             | -        | -        | $\vdash$     | $\vdash$ | $\vdash$ |
| $\vdash$   | 94             | Н        | <u> </u> | <del> -</del> | H             | $\vdash$ | -        |              | $\vdash$ | $\vdash$ |
| <del></del>                                      | 95             | Н        | Н        | $\vdash$      | Н             | _        | _        |              | $\vdash$ | $\vdash$ |
|  | 96             |          |          | 1             |               | $\vdash$ |          |              | Т        | П        |
|  | 97             |          |          |               |               |          |          |              |          |          |
|  | 98             |          |          |               |               |          |          |              |          |          |
| <u> </u>   | 99             |          | L        | L             |               | <u> </u> |          |              | <u> </u> | Ш        |
| I  | 100            |          |          | 1             |               | ı        | 1        |              | 1        | 1        |

|       |  | Date   |                                     |              |          |                              |          |          |              |                 |
|-------|--|--|-------------------------------------|--------------|----------|------------------------------|----------|----------|--------------|-----------------|
| Cli   | aim  | ļ.,  |                                     |              |          | Jate                         | -        | _        | _            | Н               |
| Final | Original   |  |                                     |              |          |                              |          |          |              |                 |
|       | 101<br>102<br>103                                    |  |                                     |              |          |                              |          |          |              |                 |
|       | 102  |  |                                     |              |          |                              |          |          |              |                 |
|       | 103  |  |                                     |              |          |                              |          |          |              | Ш               |
|       | 104  | Ш  |                                     |              |          |                              | _        |          | _            | Ш               |
|       | 105<br>106   | $ldsymbol{le}}}}}}}$ |                                     | _            |          | _                            | Ш        | L        | ļ            | Ш               |
|       | 106  |  |                                     |              |          | <u> </u>                     |          |          |              | Ц               |
| _     | 107  |  |                                     |              | _        |                              |          | _        | <u> </u>     | Н               |
|       | 108<br>109   | $\vdash$   |                                     | -            |          | $\vdash$                     |          | <u> </u> | <u> </u>     | $\vdash$        |
|       | 110  | H  |                                     | -            | $\vdash$ | ⊢                            | _        | _        | <u> </u>     | Н               |
|       | 111  |  |                                     | _            |          | $\vdash$                     | -        | ┢        | _            | Н               |
|       | 112  |  |                                     | $\vdash$     | $\vdash$ | $\vdash$                     | -        | _        | _            | Н               |
|       | 113  | $\vdash$   | H                                   | $\vdash$     | H        | $\vdash$                     | H        | $\vdash$ | $\vdash$     | $\vdash \vdash$ |
|       | 114  | $\vdash$   | $\vdash$                            | $\vdash$     | H        | $\vdash$                     | $\vdash$ | $\vdash$ |              | H               |
|       | 115  |  | $\vdash$                            | Н            | Н        | Н                            | Н        | Н        | Н            | Н               |
|       | 116  | П  |                                     | -            | Г        |                              | Г        | Г        | $\vdash$     | Н               |
|       | 117  |  |                                     |              |          |                              |          |          |              | П               |
|       | 118  |  |                                     |              |          |                              |          |          |              | П               |
|       | 119  |  |                                     | Г            |          |                              |          |          |              | П               |
|       | 120  |  |                                     |              |          |                              |          | Г        |              |                 |
|       | 120<br>121   |  |                                     |              |          |                              |          |          |              |                 |
|       | 122  |  |                                     |              |          |                              |          | Ŀ        |              |                 |
| `     | 122<br>123<br>124<br>125<br>126<br>127<br>128<br>129 |  |                                     |              |          |                              |          |          |              | Ш               |
|       | 124  |  |                                     | L            | L        |                              |          | <u> </u> | <u> </u>     | Ш               |
|       | 125  | _  | _                                   | _            |          | Ŀ                            | _        | <u> </u> |              | Ш               |
|       | 126  |  |                                     | <u> </u>     |          |                              |          | <u> </u> | _            | Н               |
|       | 127  | <u> </u>   |                                     | <u> </u>     |          | _                            |          | _        |              | Н               |
|       | 128  | -  | _                                   | $\vdash$     | _        | H                            | <u> </u> | <u> </u> | <u> </u>     | -               |
|       | 129  | Ŀ  | _                                   | $\vdash$     | -        |                              | <u> </u> | _        |              | H               |
|       | 130<br>131<br>132                                    |  | _                                   | _            | H        | -                            | ┝        | ├─       | ⊢            | Н               |
|       | 132  | -  |                                     | ├            | -        | $\vdash$                     | $\vdash$ | $\vdash$ | $\vdash$     | Н               |
|       | 133  |  |                                     | $\vdash$     | ┝        | -                            | ┢        |          | $\vdash$     | Н               |
|       | 133<br>134   | $\vdash$   | _                                   | _            |          |                              | _        | $\vdash$ | -            | Н               |
|       | 135  |  |                                     | _            |          |                              |          | $\vdash$ | Т            | Н               |
|       | 135<br>136   |  |                                     |              |          |                              |          |          | $\vdash$     | П               |
|       | 137  |  |                                     |              |          |                              |          | П        |              | П               |
|       | 138  |  |                                     |              |          |                              |          |          |              |                 |
|       | 138<br>139   |  |                                     |              |          |                              |          |          |              |                 |
|       | 140  |  |                                     |              |          | $oxed{oxed}$                 |          |          |              | Ц               |
|       | 141  |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш            | L        | $ldsymbol{ldsymbol{\sqcup}}$ | L        | _        | <u> </u>     | Ш               |
|       | 142  |  |                                     | L            | <u> </u> | <u> </u>                     |          |          | <u> </u>     | Ш               |
|       | 143  | _  |                                     | <u> </u>     |          | <u> </u>                     |          | <u> </u> | _            | Щ               |
|       | 144  |  | _                                   | <u> </u>     | <u> </u> | <u> </u>                     | <u> </u> | <u> </u> | <u> </u>     | Н               |
|       | 145  | _  | _                                   | <u> </u>     | <u> </u> | $\vdash$                     |          | _        |              | Н               |
|       | 146  | _  | -                                   | -            |          |                              | H        | <u> </u> | ├-           | $\vdash \vdash$ |
|       | 147  | $\vdash$   | -                                   | <u> </u>     | ├        |                              | $\vdash$ | <u> </u> | <u> </u>     | $\vdash \vdash$ |
|       | 148<br>149   |  |                                     | -            | $\vdash$ | $\vdash$                     | $\vdash$ | $\vdash$ | -            | Н               |
|       | 150  | -  | $\vdash$                            | <del> </del> |          | $\vdash$                     | $\vdash$ | $\vdash$ | <del> </del> | $\vdash$        |
|       | 130  |  | Щ.                                  |              | L        |                              |          | L        | <u> </u>     |                 |